Work Order ID 55678

January 27, 2010 11:25:25 AM



Page 1

Item ID:

D412-702-123B

Accept

Setup Start

Stop



Revision ID:

Item Name:

Harness Assembly

Start Date: Required Date: 2/05/10

1/27/10

QC:

Start Qty: 1.00

Req'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Date: 6-1-27 Tooling:

Date:

0.00

0.00

SPC (Y/N):

Date:

Date:

Run

Start

Stop



Sequence ID/ Work Center ID

Operation Description

Revision Nbr

Set Up/ **Run Hours**

Draw Number Draw Rev.

Plan Accept Code Qty

Reject Qty

Reject Number

Insp. Stamp

Draw Nbr

Α

DSI 9469 50

DC

Document Control

Memo

Photocopy bluefile &type labels per PPP D412-702-123B / DSI 9469

CHG001

100

Pick Kit



Packaging

Memo

0.00

0.00

Packaging

110

Small Fab

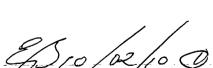
Small Fab

Memo

Assemble as per DSI9469

0.00

0.00



W/O:			WO	RK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	C	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cated	orv:	NCR: Ye	es No	DQ/	 A :	Date:	
		solution:								
NCR:			WORK ORDE	R NON-CONFORM	ANCE (N	CR)				
DATE	STEP	Description of NC Section A	Initial	Action Description		n &	Verific Section	cation	Approval Chief Eng	Approval QC Inspector
			Chief Eng	Chief Eng	Da	ate				'
-										

Page 2

January 27, 2010 11:25:25 AM

Item ID:

D412-702-123B

Accept

Setup Start



Revision ID:

Item Name:

Harness Assembly

Start Date: 1/27/10 Required Date: 2/05/10

Start Qty: 1.00

Req'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Reference:

Process Plan: Approvals:

OC:

Memo

Memo

Date: Tooling:

0.00

0.00

SPC (Y/N):

Date:

Start

Stop

Stop



Sequence ID/

Work Center ID

120

Quality Control

Operation Description

OC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

Draw Number Rev.

Draw Plan

Date:

Code Qty

Reject Accept Qty

107-10

Run

Reject Insp. Number Stamp

130

Packaging

Packaging

140

Quality Control

0.00

0.00

Identify and pack for shipping as per PPP D412-702-123B / DSI 9469

Location: PPP rev:

OC21- Final Inspection - Work Order Release

Memo

0.00

0.00

10 loz/11 Ay

	-								
W/O:			WC	RK ORDER CHANG	ES				,
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQ	A:	Date:	
	R	esolution:	Disposition	n:	_ QA: N/C (Closed:		Date: _	
NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC	ļ	Corrective Action Section		Verifi	cation	Approval	Approval
DAIL	JILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		ion C	Chief Eng	QC Inspector
									1
	-								

Picklist Print January 27, 2010 11:25:28 AM Work Order ID: 55678 D412-702-123B Parent Item: Parent Item Name: Harness Assembly



Start Date: 1/27/10

Required Date: 2/05/10

Comments:								\$	Start Qty: 1.00		Required Qty:	1.00
	Replacement Item ID	Mfg/ Purch		Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3570-4	W	Manufactured	No				Each	19.0000	1.0000	f\$10,10	2/10	
Diabaci				Wareho Loca	tion	<u>Loc (</u>	<u>Qty</u>	Loc Code		,		
				Main Wa ST24			19					
D3579-048		Manufactured	No	0.2	52886		19 Each	3.0000	1.0000	1501	los fo	
Shoulder Harness .				<u>Wareho</u> <u>Loca</u>		Loc	<u>Qty</u>	Loc Code				
				Main Wa	rehouse		2					
				ST	55119		3			1		
MS24694-S50		Purchased	No				Each	218.0000	4.0000	JS10/	62/18	· ·
Screw				<u>Wareho</u> <u>Loca</u>		Loc	<u>Oty</u>	Loc Code				
				Main Wa	rehouse							
				ST			218		_			
					108936 111020 113538		6 18 194		 	4	u .	

W/O:			WORK ORDER	CHANGES				
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:	Fault Category:	NCR: Yes	No DQ	A :	Date: _	
	Resolution		Disposition:	QA: N/C	Closed:		Date:	

NCR:			WORK ORDI	ER NON-CONFORMAN	CE (NCR)			
		Description of NC		Corrective Action Section B		Verification	Annuaral	Annessal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
						· ·		;
						:		

Picklist Print

January 27, 2010 11:25:28 AM

Work Order ID: 55678

Parent Item:

D412-702-123B

Parent Item Name: Harness Assembly

Comments:



Start Date: 1/27/10

Start Qty: 1.00

Required Date: 2/05/10

Page 2

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Primary Item Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	ate sued	Status
AN960JD10L		Purchased	No			Each	4,049.00	4.0000 	11	/.	

Washer

Warehouse	Loc Qty	Loc Code	
Location			
Main Warehouse			
ST	4049		
101291	16		
105793	49		
110985	3984		4
	Each	2,943.000 1.00	00

MS21042L3

Nut

Purchased

No

2,943.000 1.0000



Warehouse

warenouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	2943	
110844	35	
111274	27	
111668	52	
112314	331	
112385	498	
113523	300	
113537	700	
113644	1000	

January 27, 2010 11:25:28 AM

Shop Packet Print

Dart Ae	rospace L	td							Approval Chief Eng / Prod Mgr	1
W/O:				WORK ORDER	CHANGES					
DATE	STEP		PROC	CEDURE CHANGE		Ву	Date	Qty	Chief Eng /	Approval QC Inspector
										:
							,			
Part No):	PAR #	:	Fault Category:	NC	R: Yes	No DQ	A:	_ Date: _	<u>.</u>
	Res	olution:		Disposition:	QA	: N/C C	Closed:		Date: _	
NCR:			W	ORK ORDER NON-CON	IFORMANCE	E (NC	R)		-	
		Description of N	IC	Corrective Actio	n Section B		Vouisi			1

NCR:		·	WORK ORDI	ER NON-CONFORMANO	CE (NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto
							<u> </u>	
		. 100						
· · · =		-		WWW.				

Picklist Print

Page 3 January 27, 2010 11:25:28 AM

Work Order ID: 55678

Parent Item: D412-702-123B

Parent Item Name: Harness Assembly

Comments:

Item Name

Replacement Mfg/ Primary Unit of Remaining Component Item ID/ Bin Last Route Qty on Qty To Pick Item ID Item Location Location Seq ID Measure Hand Purch

D3569-3 Manufactured

Decal



Start Date: 1/27/10

Start Qty: 1.00

Qty

Issued

Required Date: 2/05/10

Required Qty: 1.00

Date Status Issued

17.0000 1.0000

Warehouse Location Main Warehouse ST245 17

17

55395

W/O:			W	ORK ORDER CHANG	GES				,	<u> </u>
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	_ NCR:	Yes N	lo DQ	A:	_ Date: _	
	R	esolution:	Dispositio	n:	QA: N	VC Clo	sed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORM	ANCE ((NCR)				
DATE	STEP	Description of NC			ction B	0: 0	Verific	cation	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti	on C	Chief Eng	QC Inspector

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND ENGINEERING INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. & NCONTROLLED COPY

REF TCCA STC: SH04-7
REF FAA STC: SR01997NY
REF EASA STC: EASA.IM.R.S.00710

SHOP COPY
RETURN TO
ENGINEERING
VNCONTROLLED COPY
SUBJECT TO AMENDMENT

WITHOUT NOTICE
WORK ORDER

PURPOSE:

Update the D412-702-041A/045A/-041B/-045B kits for compatibility with the Dart D412-769-011 Aft Facing Seat Kit.

B110-1-27

CHANGE:

Quantity (1) each of D412-702-111A/-113A is replaced with D412-702-121A/-123A. Also Qty (4) x AN4-27A bolts are added to the kits for compatability with the Dart seat. When installing the AN4 bolts in the Dart seat, open the Ø0.188" holes to Ø0.257" (see sheet 4 detail J of this service instruction for reference). Alternate nuts added (see flag note 2 & 3, sheet 4). The parts list in section 25.28 (pg. 87) of ICA-D412-702 Rev. 3 and section 7.0 (pg. 38) of IIN-D412-702 Rev. E is amended as follows:

QTY -041A	QTY -043A	QTY -045A	QTY -047A	QTY -049A	PART NUMBER	DESCRIPTION
X					D412-702-041A	Dart 13-Man 3-Point Shoulder Harness Kit
		Х			D412-702-045A	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
				L	,	<u> </u>
S:						4
1		_1		<u> </u>	D412-702-111A	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-121A	HARNESS ASSEMBLY (NEW)
1*		1*			D3570-3	BRACKET
1*		1*			D3579-043	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*		Ì	D3569-1	DECAL.
1		1			D412-702-113A	HARNESS ASSEMBLY (EXISTING)
1		1	ļ	<u> </u>	D412-702-123A	HADAIECE ACCEMBLY (NITAD)
1*		1*		-	D3570-4	HARNESS ASSEMBLY (NEW) BRACKET
1*		1*			D3579-044	SHOULDER HARNESS
		4*			MS24694S50	SCREW
4* 4*		4*				WASHER
1*		4" 1*		 	AN960JD10L MS21042L3	NUT
1*		1*		├	D3569-2	DECAL
1					D3309-2	DEOAL
4		4			AN4-27A	BOLT (NEW)
						L/
WAS:			,		<u>,</u>	-
2		2	ļ	 	D412-702-111A	HARNESS ASSEMBLY
				 	DAIL / JE-111A	101111111111111111111111111111111111111
2	<u> </u>	2		t	D412-702-113A	HARNESS ASSEMBLY
				L		L ₁ ,

* DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

BY: N SHEPHERD (DE # 02)

DATE: 09.12.10
CERT. NO.: SH04-7
ISSUE NO.: 3

В	ADD FL	AG NOTE 2	CP	09.12.10			
Α	NEW IS	9-068	CP	09.06.30			
REV.			DESCRIPTION	BY	DATE		
DESIGN		qo	DART AEROSPA	ACE	LTD		
DRAWN		M	HAWKESBURY, ONTARI				
CHECK	D	P	DRAWING NO.		REV. B		
MFG. AF	PR.	N/A	DSI 9469	SHEET 1 OF 5			
APPRO	VED	-#-	TITLE		SCALE		
DE APPR.			AFT-FACING SEAT UPDATE				
DATE 09.12.10			COPYRIGHT @ 2009 BY DART AE THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED NOT TO BE USED FOR MY PURPOSE OR COPIED OR COMMUNIC. WRITTEN PERMISSION ERROM DATS AFE	ON THE EXP	RESS CONDITION THAT IT IS OTHER PERSON WITHOUT		

W/O:	<u>.</u>	100	\ \ /(ORK ORDER CHANG	EC		-		•
DATE	STEP	PRO	OCEDURE CHA		Ву	Da	te Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cate	egory:	NCR: Y	es No	DQA:	Date: _	J
Resolution:			Disposition: Q			QA: N/C Closed:			
NCR:			WORK ORD	ER NON-CONFORM	ANCE (N	CR)			
DATE	STEP	Description of NC Section A	Corrective Action Initial Action Descript		Section B ion Sign &		erification Section C	Approval Chief Eng	Approval QC Inspector
			Chief Eng	Chief Eng	D	ate			
	-								

The parts list in section 25.28 (pg. 93) of ICA-D412-702 Rev. 3 and section 7.0 (pg. 40) of IIN-D412-702 Rev. E is amended as follows:

QTY -041B	QTY -043B	QTY -045B	QTY -047B	QTY -049B	PART NUMBER	DESCRIPTION
X					D412-702-041B	Dart 13-Man 3-Point Shoulder Harness Kit
		X			D412-702-045B	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
					L	
IS:						
						<u> </u>
1		1			D412-702-111B	HARNESS ASSEMBLY (EXISTING)
				ļ	5440 700 4040	LUADUECO ACCENDI VIIII
1		1*		 _	D412-702-121B	HARNESS ASSEMBLY (NEW)
1*					D3570-3	BRACKET
1*		1*		ļ	D3579-047	SHOULDER HARNESS
4*		4*		ļ	MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-3	DECAL
1		1			D412-702-113B	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-123B	HARNESS ASSEMBLY (NEW)
1*		11		-	D3570-4	BRACKET
1*		1*		 	D3579-048	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-3	DECAL
4		4			AN4-27A	BOLT (ADD)
WAS:	L		<u> </u>	1	1	
				<u> </u>	I	T ⁴
2		2		ļ	D412-702-111B	HARNESS ASSEMBLY
2		2			D412-702-113B	HARNESS ASSEMBLY
						L_{λ}

^{*} DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

DATE: 09.12.10
CERT. NO.: SH04-7
ISSUE NO.: 3

		W/0 554	78
DESIGN	P	DART AEROSPAC	ELTD
DRAWN	18	HAWKESBURY, ONTARIO, C	ANADA
CHECKED	P	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9469	SHEET 2 OF 5
APPROVED	74	TITLE	SCALE
DE APPR.	#	AFT-FACING SEAT UPDATE	NTS
DATE 09.1	2.10	COPYRIGHT @ 2009 BY DART AEROS THIS DOCUMENT IS PRIVATE AND COMPIDENTIAL AND IS SUPPLIED ON THIN NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED ITS WRITTEN PERMISSION FROM DATT AEROSPACE	EXPRESS CONDITION THAT IT IS ANY OTHER PERSON WITHOUT

Dart Ae	rospace	e Ltd								,			
W/O:			WORK ORDER CHANGES										
DATE	STEP	PRO	PROCEDURE CHANGE			'	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No	:	PAR #:	Fault Ca	tegory:	NCR: Y	es N	DQ	A:	Date: _				
	Resolution:		Disposition:		QA: N/C Closed:				Date:				
NCR:		V	ORK OR	DER NON-CONFORMA	NCE (N	CR)							
		Description of NC		Corrective Action Section	Section B Verif			cation	Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Ciara O		ion C	Chief Eng	QC Inspector			
		,											

Figures 4.8 (pg. 25) of IIN-D412-702 Rev. E and 25.12 (pg. 69) of ICA-D412-702 Rev. 3 are updated as follows:

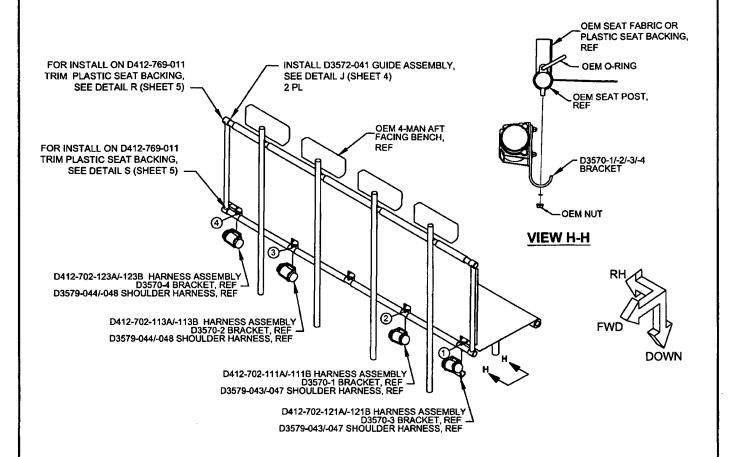


FIGURE 4.8. SHOULDER BELT INSTALLATION FIGURE 25.12 D412-702-045A/-045B 4-MAN 3-POINT AFT FACING SHOULDER HARNESS KIT

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AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

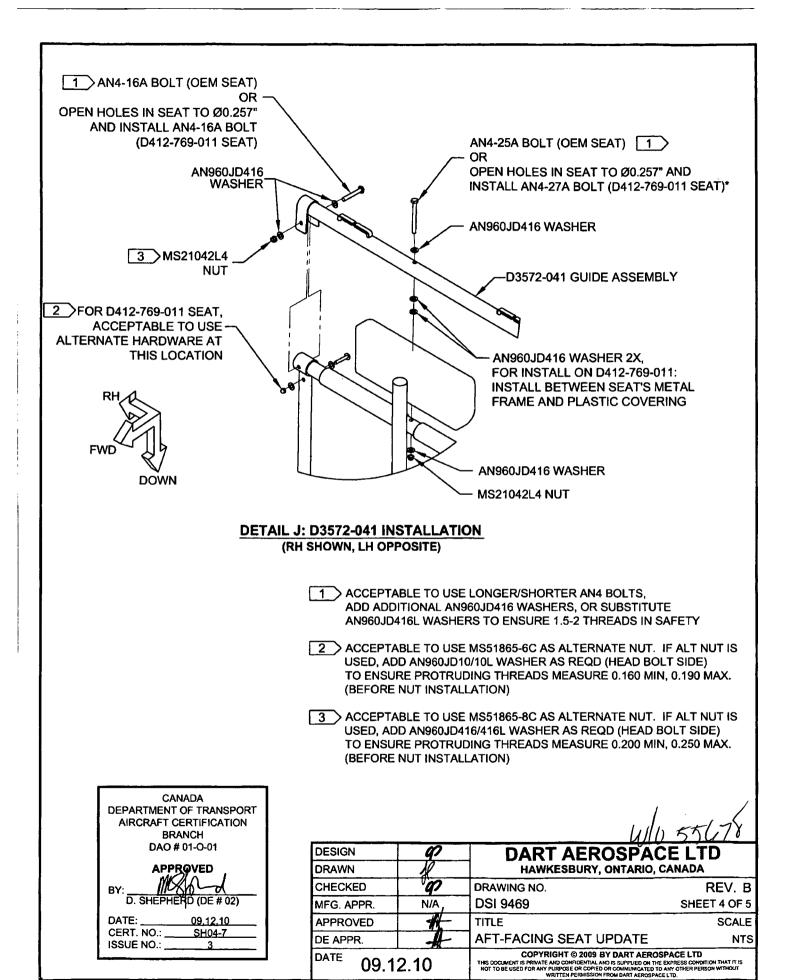
APPROVED

BY:
D. SHEPHERD (DE # 02)

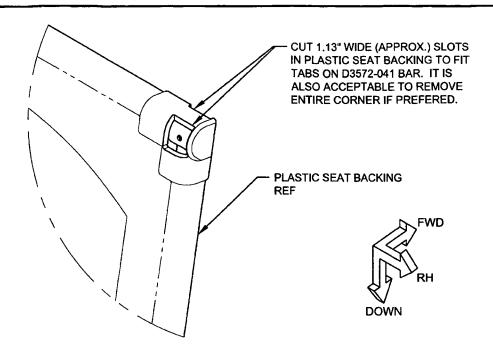
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09.12.10
CERT. NO.:
SH04-7
ISSUE NO.:
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MFG. APPR.	N/A	DSI 9469	SHEET 3 OF 5				
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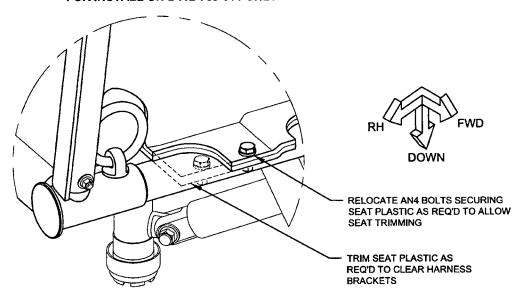
W/O:			wc	ORK ORDER CHANG	SES.	-			*		
DATE	STEP	PRO	PROCEDURE CHANGE					Approval Chief Eng / Prod Mgr	Approval QC Inspector		
						·					
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _			
				Disposition: QA:							
NCR:		,	WORK ORDI	ER NON-CONFORM	ANCE (NC	R)					
DATE	STEP	Description of NC		tion B		rification Approval		Approval			
	J.L.	Section A	Initial Action Description Chief Eng Chief Eng		Sign Date		ion C	Chief Eng	QC Inspector		



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W/O:		- Val.	WC	RK ORDER CHANG	ES					
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		144.								
Part No	•	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQ	A:	Date: _		
				_ Disposition: Date: Date:						
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NC	R)				
DATE	CTED	Description of NC	Corrective Action Section B			Verifi	rification Approval		Approval QC Inspector	
DAIL	STEP Description of NC Section A		Initial Action Descri Chief Eng Chief Eng		Sign Date	Section C		Chief Eng		
								ļ		
					:					
-										
									<u> </u>	



DETAIL R
VIEW LOOKING AT FRONT OF SEAT BACKING, TOP-RH CORNER SHOWN (TOP-LH CORNER SIMILAR),
FOR INSTALL ON D412-769-011 ONLY



DETAIL S

VIEW LOOKING AT REAR OF SEAT, BOTTOM-RH CORNER SHOWN (BOTTOM-LH CORNER SIMILAR),

FOR INSTALL ON D412-769-011 ONLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

APPROVED

D. SHEPHERD (DE # 02)

DATE: 09.12.10

CERT. NO.: SH04-7
ISSUE NO.: 3

		1110 3	5410				
DESIGN 97		DART AEROSPACE LTD					
DRAWN	H		HAWKESBURY, ONTARIO, CANADA				
CHECKED	9	DRAWING NO.	REV. B				
MFG. APPR.	N/A	DSI 9469	SHEET 5 OF 5				
APPROVED	4	TITLE	SCALE				
DE APPR.		AFT-FACING SEAT UPDATE	NTS				
DATE 09.1	2.10	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIA. AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IN NOT TO BE USED FOR ANY PURPOSE OR COMED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT					

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W/O:			WO	RK ORDER CHANGES			<u> </u>		
DATE STEP		PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No: PAR #:		PAR #:	Fault Categ	jory: 1	NCR: Yes	No DQ	A:	_ Date: _	
		esolution:	Disposition: QA			QA: N/C Closed: Date			
NCR:		\	WORK ORDE	R NON-CONFORMAN	CE (NCR)			
DATE	STEP	Description of NC			ection B		cation	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sect	ion C	Chief Eng	QC Inspector
									: